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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/867,845	05/29/2001		Chaitan Khosla	300622005500	7453
25225	7590	11/30/2006		EXAMINER	
		ERSTER LLP	zноџ, sнuво		
12531 HIGH BLUFF DRIVE SUITE 100				ART UNIT	PAPER NUMBER
SAN DIEGO	O, CA 9	2130-2040		1631	
				DATE MAILED: 11/30/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
		KHOSLA ET AL.
Office Action Summary	09/867,845	Art Unit
omoo nousii dammary	Examiner	
The MAILING DATE of this communication app	Shubo (Joe) Zhou	1631
Period for Reply	sears on the cover sheet with the c	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on <u>07 N</u> This action is FINAL. 2b) This Since this application is in condition for alloward closed in accordance with the practice under B 	s action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 14-22 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 14-22 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o Application Papers 9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomposite and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct	wn from consideration. or election requirement. er. cepted or b) objected to by the drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
11) The oath or declaration is objected to by the Ex	xaminer. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list 	ts have been received. ts have been received in Applicat ority documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892)	4) ⊠ Interview Summan	/ (PTQ _4/ 13 / _ /
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) M Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	

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DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission including the amendments to the claims filed on 11/7/06 has been entered.

However, the amendment to the specification filed 11/7/06 has not been entered because the amendment does not comply with 37 CFR 1.121. The amendments to replace paragraphs on pages 1 and 9 of the specification do not provide markings to show changes made.

Claims 14-22 are currently pending and under consideration.

Specification

The disclosure is objected to because of the following:

Portions of this application are contained on compact disc(s). When portions of an application are contained on a compact disc, the paper portion of the specification must identify the compact disc(s) and list the files including name, file size, and creation date on each of the compact discs. See 37 CFR 1.52(e). Compact discs comprising appendix A, B, and D filed 3/5/02 are not identified in the paper portion of the specification with a listing of all of the files

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contained on the disc. Applicant is required to amend the specification to identify each disc and the files contained on each disc including the file name, file size, and file creation date.

This objection is reiterated from the previous Office action (the final rejection). Applicant amended the specification in an effort to overcome the objection in the response filed 11/7/06. However, the amendments to the specification have not been entered for reasons set forth above.

Furthermore, it is noted that in the amendment to the specification filed 11/7/06, a new paragraph is to be inserted after paragraph 2 on page 1 of the specification. However, the paragraph numberings of all the subsequent paragraphs are not amended accordingly.

Appropriate correction is required.

Claim Rejections-35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 14-22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Independent claims 14, 18, 19 and 20 are amended to recite "storing or displaying one or more new strings ... wherein said new string defines a PKS gene capable of producing said

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desired polyketide." Applicant argues in the response filed 11/7/06 that support for the amendment can be found in the specification on pages 50, 52, 59, 63-64, 81, and 87. However, an extensive inspection of the respective paragraphs and other sections of the specification does not find adequate support for the amendment. While paragraph 59 of the specification describes that "[t]his CHUCKLES-coded polyketide library can be stored in a compute file as a set of records;" paragraph 63 of the specification describes writing an alignment into an output, these descriptions are clearly distinct with "storing or displaying one or more new strings ... wherein said new string defines a PKS gene capable of producing said desired polyketide," as added in the amendment. Thus, the new limitation added is deemed as new matter.

Claim 20 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claim 20 recites "means for receiving a string of alphanumeric symbols representing the structure of said polyketide," "means for comparing said string to a database of strings of alphanumeric symbols representing polyketides produced producible by PKS genes," "means for identifying common elements in said string representing the structure of said polyketide with elements in said strings in said database," and "means for generating and storing or displaying one or more new strings from elements identified in step (c) that have an exact match with said string representing the structure of said polyketide." These various "means-plus-function" recitations invoke 35 USC 112, sixth paragraph, which states that a claim limitation expressed in

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means-plus-function language "shall be construed to cover the corresponding structure...described in the specification and equivalents thereof." "If one employs means plus function language in a claim, one must set forth in the specification an adequate disclosure showing what is meant by that language." In the instant case, the specification fails to set forth an adequate disclosure showing what is meant by all the recited "means." Thus, one of skill in the art would reasonably doubt that the inventor, at the time the application was filed, had possession of the claimed invention.

The following is a quotation of the **second** paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 14-22 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Independent claims 14, 18, 19 and 20 are amended to recite "wherein said new string defines a PKS gene capable of producing said desired polyketide." The phrase "said new string" lacks clear antecedent basis because prior reference is made to "one or more new strings from elements identified in step (c) that have an exact match with said string representing the structure of said desired polyketide." Emphasis is added by the Office. The underline elements above indicate multiple strings are referenced. Thus it is not clear which one of the multiple new strings is referred to by the phrase "said new string." Further, it is not clear whether it is meant that only one, or every one, of the multiple new strings defines a PKS gene capable of producing the desired polyketide.

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Claims 15 and 21 recite "[t]he method of claim 14, wherein all possible PKS genes capable of producing the desired polyketide from said database are generated." Claim 14 recites "a database of strings of alphanumeric symbols representing polyketides producible by PKS genes." While the polyketides can be produced by PKS genes, it is not indicated that the database per se contains the PKS genes that produce the polyketides. Thus, it is not clear as to how "all possible PKS genes" can be generated and displayed "from said database."

Claim 20 recites "means-plus-function" limitations, thus invoking 35 USC 112, sixth paragraph. The MPEP 2181(II) states:

If an applicant fails to set forth an adequate disclosure, the applicant has in effect failed to particularly point out and distinctly claim the invention as required by the second paragraph of section 112." In re Donaldson Co., 16 F.3d 1189, 1195, 29 USPQ2d 1845, 1850 (Fed. Cir. 1994) (in banc).

In the instant case, the specification does not provide an adequate disclosure showing the structure, material or acts for these "means-plus-function" limitations, for reasons as set forth above. Thus, one skilled in the art would not know what are meant by these "means-plus-function" limitations, and the metes and bounds of the claimed invention are thus not clear.

Furthermore, claim 20 appears to be drawn to a computer-readable medium, which often embodies computer executable program thereon. However the computer readable medium in claim 20 comprises various structural means for performing respective functions. Thus, it is not clear whether claim 20 is drawn to a computer readable medium comprising computer program for performing the series of recited functions or a computer system for performing the functions.

Conclusion

No claim is allowed.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shubo (Joe) Zhou, whose telephone number is 571-272-0724. The examiner can normally be reached Monday-Friday from 8 A.M. to 4 P.M. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang, can be reached on 571-272-0811. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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